

Saline County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

5/24/2016

Using the most recent IMPLAN data available (2014) adjusted for 2016, 21 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Saline County economy.¹

These 21 sectors have a total direct output of approximately **\$953.6 million** and support **2,873.8 jobs** in Saline County. Running the model for all 21 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Saline County Economy						
Impact Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵	Output % of Gross Regional Product
Direct Effect	2,873.8	7.72%	\$178,839,656.76	6.78%	\$953,560,380.59	36.14%
Indirect Effect	1,074.0	2.88%	\$95,834,887.48	3.63%	\$168,919,563.17	6.40%
Induced Effect	842.4	2.26%	\$58,595,102.98	2.22%	\$100,719,873.33	3.82%
Total Effect	4,790.3	12.86%	\$333,269,647.21	12.63%	\$1,223,199,817.09	46.36%

As shown in the above table, agriculture, food, and food processing sectors support **4,790.3 jobs**, or **12.86%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.2 billion**, roughly **46.36% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 21 agriculture, food, and food processing sectors is approximately **\$333.3 million**, or **12.63% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **12.63% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the frozen specialties manufacturing sector is the top employer with **1,201.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Saline County.

Top Ten Sectors by Employment		
Sector	Total Employment	Total Output
Frozen specialties manufacturing	1201.5	\$399,825,050.99
Farm machinery and equipment manufacturing	654.6	\$384,399,643.21
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	467.8	\$34,238,326.95
Wholesale trade	254.7	\$55,444,027.36
Landscape and horticultural services	155.9	\$9,867,611.66
Grain farming	119.6	\$29,101,239.26
Truck transportation	96.9	\$16,230,661.04
Full-service restaurants	84.5	\$3,532,299.30
Management of companies and enterprises	81.7	\$16,639,782.48
Limited-service restaurants	78.8	\$5,894,757.94

The frozen specialties manufacturing sector directly contributes approximately **\$399.8 million** to the Saline County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Sectors by Output		
Sector	Total Employment	Total Output
Frozen specialties manufacturing	1201.5	\$399,825,050.99
Farm machinery and equipment manufacturing	654.6	\$384,399,643.21
Flour milling	36.7	\$56,234,034.27
Wholesale trade	254.7	\$55,444,027.36
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	467.8	\$34,238,326.95
Grain farming	119.6	\$29,101,239.26
Management of companies and enterprises	81.7	\$16,639,782.48
Truck transportation	96.9	\$16,230,661.04
Owner-occupied dwellings	0.0	\$15,979,011.97
Oilseed farming	14.2	\$10,795,954.13

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Saline County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	14.2	\$10,795,954.13
Grain farming	119.6	\$29,101,239.26
Vegetable and melon farming	0.1	\$15,556.38
Fruit farming	1.4	\$105,738.17
Tree nut farming	0.0	\$159.98
Greenhouse, nursery, and floriculture production	5.3	\$659,049.77
All other crop farming	68.2	\$3,507,995.01
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	467.8	\$34,238,326.95
Dairy cattle and milk production	2.5	\$717,279.67
Poultry and egg production	0.5	\$276,937.22
Animal production, except cattle and poultry and eggs	14.7	\$1,095,619.80
Commercial logging	0.8	\$117,631.16
Flour milling	36.7	\$56,234,034.27
Frozen specialties manufacturing	1201.5	\$399,825,050.99
Bread and bakery product, except frozen, manufacturing	39.4	\$4,389,100.37
Frozen cakes and other pastries manufacturing	2.5	\$360,770.09
Breweries	8.5	\$6,978,610.79
Farm machinery and equipment manufacturing	654.6	\$384,399,643.21
All other industrial machinery manufacturing	17.1	\$4,541,321.50
Veterinary services	62.3	\$6,332,750.20
Landscape and horticultural services	155.9	\$9,867,611.66

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Saline County, the retail sector was omitted.